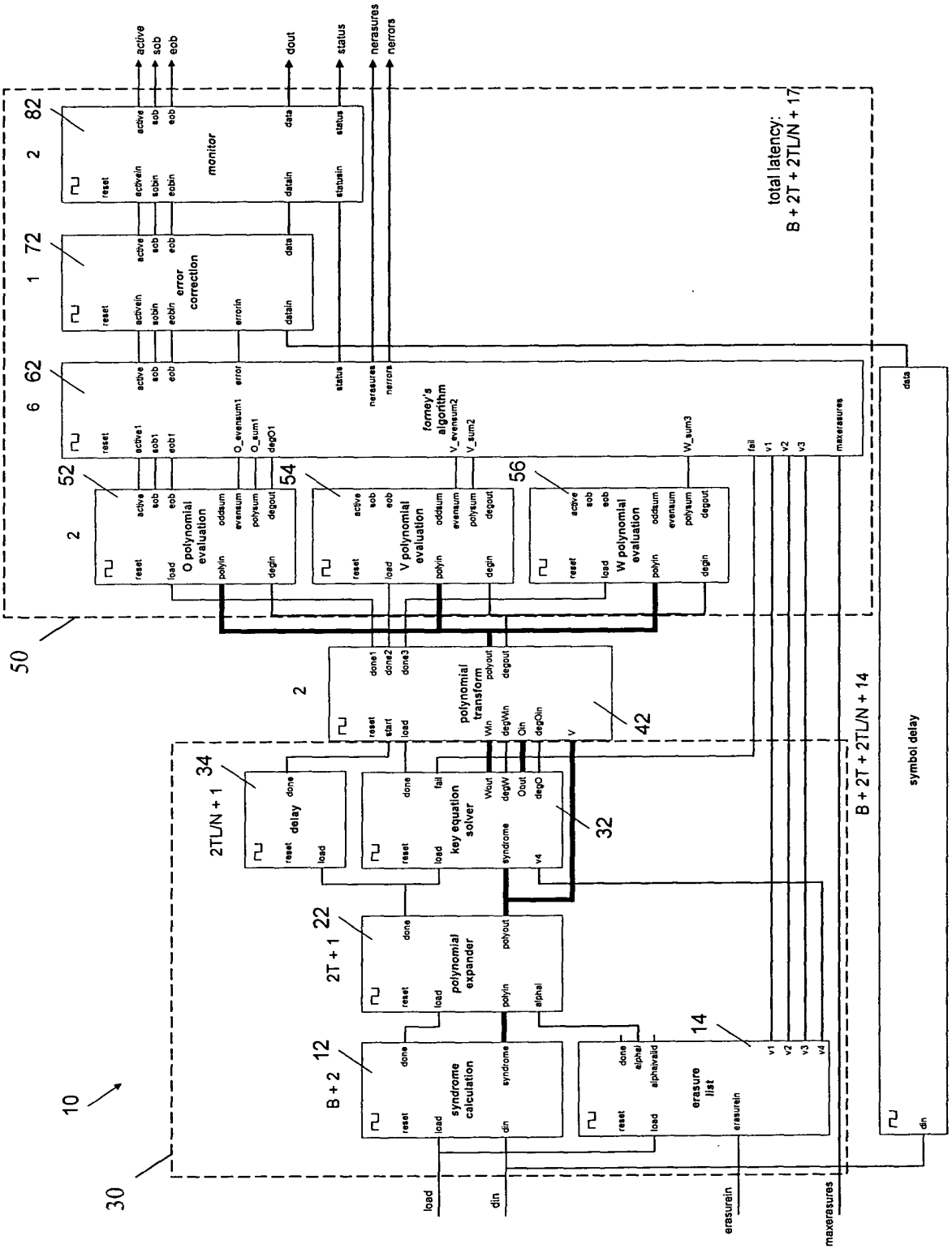
active
sob
eob
dout
status
nerasures
nerrors
monitor
error correction
total latency:
B + 2T + 2TL/N + 17
forney's algorithm
O polynomial evaluation
V polynomial evaluation
W polynomial evaluation
polynomial transform
key equation solver
2TL/N + 1
polynomial expander
2T + 1
syndrome calculation
B + 2
erasure list
B + 2T + 2TL/N + 14
symbol delay
load
din
erasurein
maxerasures
10
30
50
52
54
56
32
34
22
12
14
42
82
72
62

Fig. 1

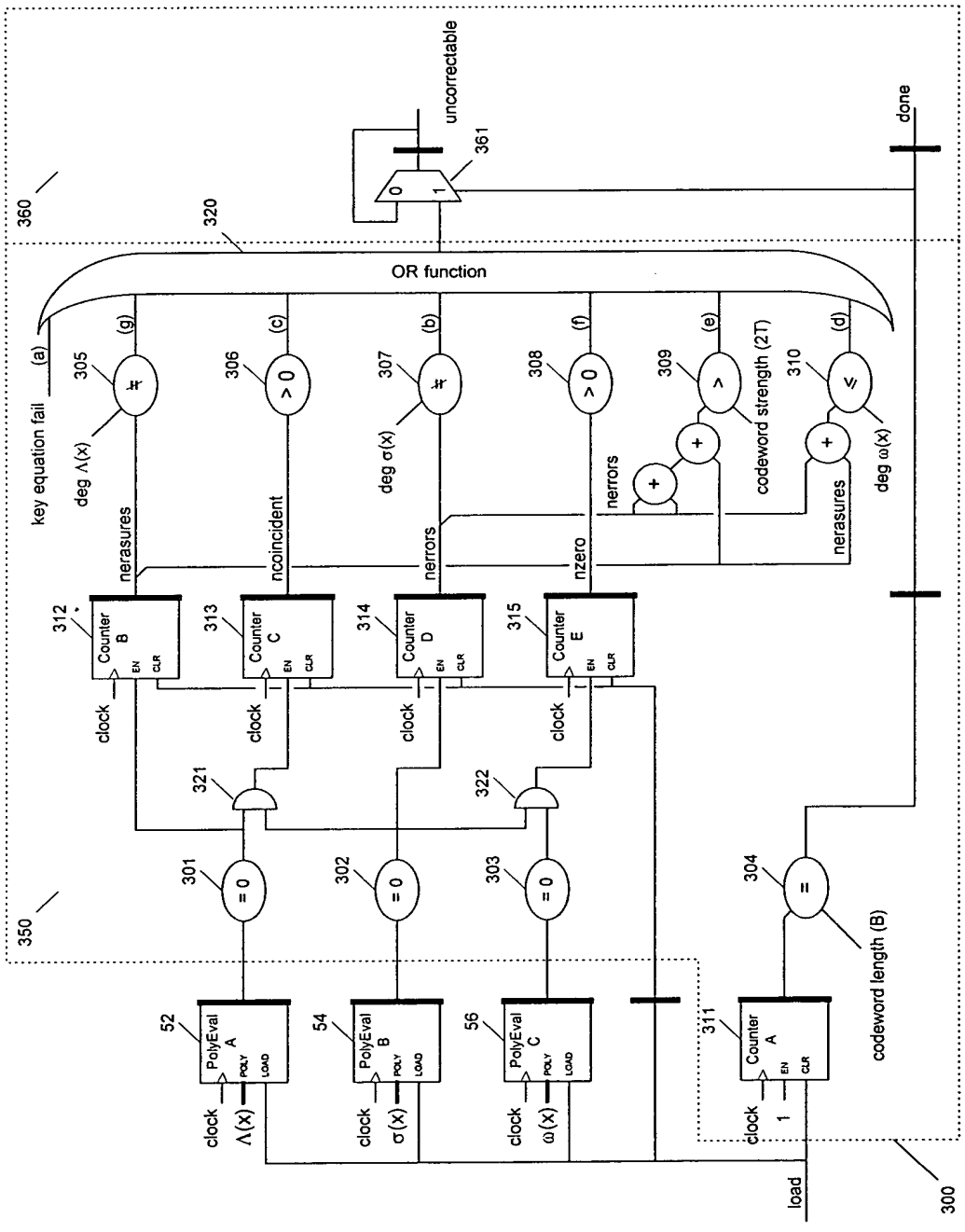
360
320
350
300
uncorrectable
361
done
OR function
key equation fail
(a)
(g)
(c)
(b)
(f)
(e)
(d)
305
306
307
308
309
310
deg Λ(x)
deg σ(x)
codeword strength (2T)
deg ω(x)
nerasures
ncoincident
nerrors
nzero
nerrors
nerasures
312
313
314
315
Counter B
Counter C
Counter D
Counter E
EN
CLR
clock
321
322
301
302
303
304
= 0
=
codeword length (B)
52
54
56
311
PolyEval A
PolyEval B
PolyEval C
Counter A
POLY
LOAD
Λ(x)
σ(x)
ω(x)
1
load

Fig. 2